

Rec'd PCT/PTO 07 JAN 2005  
10/520578

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/07240

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B22D37/00 B22D11/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B22D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 008, no. 180 (M-318), 18 August 1984 (1984-08-18) & JP 59 073173 A (KAWASAKI SEITETSU KK), 25 April 1984 (1984-04-25) abstract —	1,6
A	US 3 833 050 A (FRIDMAN L ET AL) 3 September 1974 (1974-09-03) figure —	1,9
A	FR 2 659 880 A (SIDERURGIE FSE INST RECH) 27 September 1991 (1991-09-27) abstract; figure —	1,9

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*8\* document member of the same patent family

Date of the actual completion of the international search

30 October 2003

Date of mailing of the international search report

06/11/2003

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Hodi amont, S

**INTERNATIONAL SEARCH REPORT**International Application No  
PCT/EP 03/07240

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 59073173	A 25-04-1984	NONE	
US 3833050	A 03-09-1974	NONE	
FR 2659880	A 27-09-1991	FR 2659880 A1	27-09-1991